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**1 Radar backscatter from mechanically generated transient breaking waves. I. Angle of incidence dependence and high resolution surface morphology**

*Dano, E.B.; Lyzenga, D.R.; Perlin, M.;*

Oceanic Engineering, IEEE Journal of , Volume: 26 , Issue: 2 , April 2001  
 Pages:181 - 200

[\[Abstract\]](#)   [\[PDF Full-Text \(1152 KB\)\]](#)   **IEEE JNL**

**2 Generation of holographic synthetic aperture radar images from bistatic waterline measurements of a complex metallic object**

*Jersak, B.D.; Krennek, B.D.; Blanchard, A.J.;*

Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International , Volume: 3 , 10-14 July 1995  
 Pages:2255 - 2257 vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(808 KB\)\]](#)   **IEEE CNF**

**3 A simple reflector model for polarimetric radar at millimetre waves**

*Kjellgren, J.; Nilsson, S.; Sume, A.;*

Geoscience and Remote Sensing Symposium, 1993. IGARSS '93. 'Better Understanding of Earth Environment', International , 18-21 Aug. 1993  
 Pages:2037 - 2039 vol.4

[\[Abstract\]](#)   [\[PDF Full-Text \(276 KB\)\]](#)   **IEEE CNF**

**4 Scattering from breaking gravity waves without wind**

*Lee, P.H.Y.; Barter, J.D.; Beach, K.L.; Lake, B.M.; Rungaldier, H.; Thompson, H.R., Jr.; Yee, R.;*

Antennas and Propagation, IEEE Transactions on , Volume: 46 , Issue: 1 , Jan. 1998  
 Pages:14 - 26

[\[Abstract\]](#) [\[PDF Full-Text \(312 KB\)\]](#) IEEE JNL

---

**5 Effects of polarization and resolution on SAR ATR**

*Novak, L.M.; Halversen, S.D.; Owirka, G.; Hiett, M.;*

Aerospace and Electronic Systems, IEEE Transactions on , Volume: 33 , Issue: 1 , Jan. 1997

Pages:102 - 116

[\[Abstract\]](#) [\[PDF Full-Text \(2656 KB\)\]](#) IEEE JNL

---

**6 An ultrawideband, polarimetric radar for the study of sea scatter**

*Sletten, M.A.; Trizna, D.B.;*

Antennas and Propagation, IEEE Transactions on , Volume: 42 , Issue: 11 , Nov. 1994

Pages:1461 - 1466

[\[Abstract\]](#) [\[PDF Full-Text \(568 KB\)\]](#) IEEE JNL

---

**7 Multi-frequency/multi-polarization measurements of radar backscatter under different rain and wind conditions**

*Braun, N.; Gade, M.; Schymura, G.;*

Geoscience and Remote Sensing Symposium, 2000. Proceedings. IGARSS 2000. IEEE 2000 International , Volume: 1 , 24-28 July 2000

Pages:123 - 125 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(308 KB\)\]](#) IEEE CNF

---

**8 Dominant wave effects in wavetank measurement of microwave Doppler spectra**

*Plant, W.J.; Hesany, V.; Keller, W.C.; Donelan, M.A.;*

Geoscience and Remote Sensing Symposium, 1996. IGARSS '96. 'Remote Sensing for a Sustainable Future.', International , Volume: 4 , 27-31 May 1996

Pages:2210 - 2212 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(152 KB\)\]](#) IEEE CNF

---

**9 Polarimetric measurements of microwave emission from capillary waves**

*Pospelov, N.N.; Kuzmin, A.V.; Trokhimovski, Y.G.;*

Geoscience and Remote Sensing Symposium, 2001. IGARSS '01. IEEE 2001 International , Volume: 3 , 9-13 July 2001

Pages:1561 - 1563 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(487 KB\)\]](#) IEEE CNF

---

**10 An algorithm for detecting groups of targets**

*Owirka, G.J.; Halversen, S.D.; Hiett, M.; Novak, L.M.;*

Radar Conference, 1995., Record of the IEEE 1995 International , 8-11 May 1995

Pages:641 - 643

[\[Abstract\]](#) [\[PDF Full-Text \(376 KB\)\]](#) IEEE CNF

---

**11 Radar observations of breaking waves and solitons at low grazing angles**

*Askari, F.; Donato, T.F.; Griffin, O.M.; Peltzer, R.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International , Volume: 2 , 8-12 Aug. 1994

Pages:808 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(188 KB\)\]](#) IEEE CNF

---

**12 A wind-wave tank study of the azimuthal response of a Ka-band scatterometer**

*Giovanangeli, J.-P.; Bliven, L.F.; Le Calve, O.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 29 , Issue: 1 , Jan. 1991

Pages:143 - 148

[\[Abstract\]](#) [\[PDF Full-Text \(512 KB\)\]](#) IEEE JNL

---

**13 A real-time statistical polarimetric target model**

*Sandhu, G.S.;*

Aerospace and Electronic Systems, IEEE Transactions on , Volume: 24 , Issue: 1 , Jan. 1988

Pages:51 - 67

[\[Abstract\]](#) [\[PDF Full-Text \(1200 KB\)\]](#) IEEE JNL

---

**14 New insights into the radar backscattering from the water surface at different radar frequencies and polarizations in the presence of rain and wind**

*Braun, N.; Gade, M.;*

OCEANS 2000 MTS/IEEE Conference and Exhibition , Volume: 3 , 11-14 Sept. 2000

Pages:2101 - 2105 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(548 KB\)\]](#) IEEE CNF

---

**15 Inside the sea-spike: low grazing angle radar imaging of laboratory waves repeatedly breaking in wave groups**

*Fuchs, J.; Welch, S.; Waseda, T.; Regas, D.; Tulin, M.P.;*

Geoscience and Remote Sensing, 1997. IGARSS '97. 'Remote Sensing - A Scientific Vision for Sustainable Development', 1997 IEEE International , Volume: 2 , 3-8 Aug. 1997

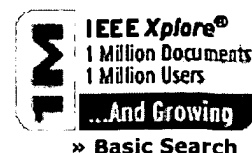
Pages:714 - 718 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(540 KB\)\]](#) IEEE CNF

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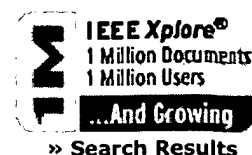
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#### 1 Dual-polarized slot-coupled patch antennas on Duroid with teflon lenses for 76.5-GHz automotive radar systems

*Porter, B.G.; Rauth, L.L.; Mura, J.R.; Gearhart, S.S.;*

Antennas and Propagation, IEEE Transactions on , Volume: 47 , Issue: 12 , Dec. 1999

Pages:1836 - 1842

[\[Abstract\]](#)   [\[PDF Full-Text \(180 KB\)\]](#)   **IEEE JNL**

#### 2 Full polarimetric pattern synthesis for an active conformal array

*Dinnichert, M.;*

Phased Array Systems and Technology, 2000. Proceedings. 2000 IEEE International Conference on , 21-25 May 2000

Pages:415 - 419

[\[Abstract\]](#)   [\[PDF Full-Text \(364 KB\)\]](#)   **IEEE CNF**

#### 3 Strut cross sections for minimizing noise temperature in reflector antennas

*Moreira, F.J.S.; Prata, A., Jr.; Thorburn, M.A.;*

Antennas and Propagation Society International Symposium, 1994. AP-S. Digest , Volume: 3 , 20-24 June 1994

Pages:2046 - 2049 vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(160 KB\)\]](#)   **IEEE CNF**

#### 4 Development of low RCS reflector antenna systems

*Reuster, D.D.; Thiele, G.A.; Elloe, P.W.;*

Antennas and Propagation Society International Symposium, 1994. AP-S. Digest , Volume: 3 , 20-24 June 1994

Pages:2325 - 2328 vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(120 KB\)\]](#)   **IEEE CNF**



**5 Land cover classification by SAR**

*Ulaby, F.; Pierce, L.E.; Dobson, M.C.; Chacon, S.; Sarabandi, K.;*  
Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International , Volume: 3 , 8-12 Aug. 1994  
Pages:1602 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(40 KB\)\]](#) IEEE CNF

---

**6 The measurement of a large antenna using a spacecraft as a receiver**

*Talaga, P.;*  
Antennas and Propagation, IEEE Transactions on , Volume: 38 , Issue: 6 , June 1990  
Pages:883 - 888

[\[Abstract\]](#) [\[PDF Full-Text \(476 KB\)\]](#) IEEE JNL

---

**7 Textural processing of multi-polarization SAR for agricultural crop classification**

*Treitz, P.M.; Filho, O.R.; Howarth, P.J.; Soulis, E.D.;*  
Geoscience and Remote Sensing Symposium, 1996. IGARSS '96. 'Remote Sensing for a Sustainable Future.', International , Volume: 4 , 27-31 May 1996  
Pages:1986 - 1988 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(276 KB\)\]](#) IEEE CNF

---

**8 A multimode feed with low cross-polarization for tracking radar**

*Chen Shaoqing; Zhang Jingduan; Ji Hua;*  
Microwave and Millimeter Wave Technology Proceedings, 1998. ICMMT '98. 1998 International Conference on , 18-20 Aug. 1998  
Pages:512 - 515

[\[Abstract\]](#) [\[PDF Full-Text \(184 KB\)\]](#) IEEE CNF

---

**9 Spatial texture in AirSAR images of the Greenland ice sheet**

*Lin, I.-I.; Rees, W.G.;*  
Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International , Volume: 4 , 8-12 Aug. 1994  
Pages:2385 - 2387 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(236 KB\)\]](#) IEEE CNF

---

**10 Design techniques for compact monopulse antenna feeds for W-band radar systems**

*Storkus, W.L.;*  
Microwave Symposium Digest, 1990., IEEE MTT-S International , 8-10 May 1990  
Pages:805 - 808 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(312 KB\)\]](#) IEEE CNF

---

**11 Knowledge-based land-cover classification using ERS-1/JERS-1 SAR composites**

*Dobson, M.C.; Pierce, L.E.; Ulaby, F.T.;*  
Geoscience and Remote Sensing, IEEE Transactions on , Volume: 34 , Issue: 1 , Jan. 1996  
Pages:83 - 99

[\[Abstract\]](#) [\[PDF Full-Text \(3224 KB\)\]](#) IEEE JNL

---

**12 Design and near-field measurement performance evaluation of the SeaWinds dual-beam reflector antenna**

*Hussein, Z.; Rahmat-Samii, Y.; Kellogg, K.;*

Antennas and Propagation Society International Symposium, 1997. IEEE., 1997  
Digest , Volume: 2 , 13-18 July 1997

Pages:852 - 855 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(268 KB\)\]](#) IEEE CNF

---

**13 Chiral cover effects on microstrip antennas**

*Bilotti, F.; Vegni, L.;*

Antennas and Propagation, IEEE Transactions on , Volume: 51 , Issue: 10 , Oct.  
2003

Pages:2891 - 2898

[\[Abstract\]](#) [\[PDF Full-Text \(502 KB\)\]](#) IEEE JNL

---

**14 Fully polarimetric bistatic radar scattering behavior of forested hills**

*McLaughlin, D.J.; Yuliang Wu; Stevens, W.G.; Xuehu Zhang; Sowa, M.J.; Weijers, B.;*

Antennas and Propagation, IEEE Transactions on , Volume: 50 , Issue: 2 , Feb.  
2002

Pages:101 - 110

[\[Abstract\]](#) [\[PDF Full-Text \(415 KB\)\]](#) IEEE JNL

---

**15 Scattering from breaking gravity waves without wind**

*Lee, P.H.Y.; Barter, J.D.; Beach, K.L.; Lake, B.M.; Rungaldier, H.; Thompson, H.R., Jr.; Yee, R.;*

Antennas and Propagation, IEEE Transactions on , Volume: 46 , Issue: 1 , Jan.  
1998

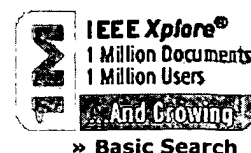
Pages:14 - 26

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### 1 Initial results from a volume scanning three wavelength polarization lidar

*O'Brien, M.D.; Evanisko, G.R.; Philbrick, C.R.;*

Combined Optical-Microwave Earth and Atmosphere Sensing, 1995. Conference Proceedings., Second Topical Symposium on , 3-6 April 1995  
Pages:135 - 137

[\[Abstract\]](#)   [\[PDF Full-Text \(224 KB\)\]](#)   IEEE CNF

### 2 Modeling interpretation of scattering from snow-covered sea ice

*Fung, A.K.; Tjuatja, S.; Beaven, S.; Gogineni, S.P.; Jezek, K.; Gow, A.J.; Perovich, D.K.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International , Volume: 1 , 8-12 Aug. 1994  
Pages:617 - 619 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(272 KB\)\]](#)   IEEE CNF

### 3 Fully polarimetric measurements of robotically fabricated dense media targets

*Porco, R.L.; Bredow, J.W.; Fung, A.K.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International , Volume: 1 , 8-12 Aug. 1994  
Pages:544 - 546 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(240 KB\)\]](#)   IEEE CNF

### 4 Data volume reduction for single-look polarimetric imaging radar data

*van Zyl, J.J.; Burnette, C.F.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 29 , Issue: 5 , Sept. 1991  
Pages:784 - 786

[\[Abstract\]](#) [\[PDF Full-Text \(276 KB\)\]](#) IEEE JNL

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**5 An accurate analysis of L-band SAR backscatter sensitivity to forest biomass**

*Castel, T.; Beaudoin, A.; Picard, G.; Thuy Le Toan; Caraglio, Y.; Houllier, F.;*  
Geoscience and Remote Sensing Symposium, 2000. Proceedings. IGARSS 2000.  
IEEE 2000 International , Volume: 6 , 24-28 July 2000  
Pages:2564 - 2566 vol.6

[\[Abstract\]](#) [\[PDF Full-Text \(244 KB\)\]](#) IEEE CNF

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**6 Preliminary observational study on microwave backscattering characteristics of snow using the PWRI microwave scatterometer**

*Fukami, K.; Masukura, K.; Koike, T.; Hasegawa, I.;*  
Geoscience and Remote Sensing Symposium, 1993. IGARSS '93. 'Better Understanding of Earth Environment', International , 18-21 Aug. 1993  
Pages:1255 - 1257 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(168 KB\)\]](#) IEEE CNF

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**7 Optimal polarizations for statistically distributed scatterers-theory and measurements with the DFVLR weather radar**

*Tragl, K.; Schroth, A.; Luneburg, E.;*  
Antennas and Propagation, 1989. ICAP 89., Sixth International Conference on (Conf. Publ. No.301) , 4-7 Apr 1989  
Pages:88 - 95 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(604 KB\)\]](#) IEEE CNF

---

**8 The role of circular polarization in bistatic radar for mitigation of interference due to rain**

*Pyati, V.;*  
Antennas and Propagation, IEEE Transactions on [legacy, pre - 1988] , Volume: 32 , Issue: 3 , Mar 1984  
Pages:295 - 296

[\[Abstract\]](#) [\[PDF Full-Text \(232 KB\)\]](#) IEEE JNL

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**9 High-resolution measurements of scattering in wheat canopies-implications for crop parameter retrieval**

*Brown, S.C.M.; Quegan, S.; Morrison, K.; Bennett, J.C.; Cookmartin, G.;*  
Geoscience and Remote Sensing, IEEE Transactions on , Volume: 41 , Issue: 7 , July 2003  
Pages:1602 - 1610

[\[Abstract\]](#) [\[PDF Full-Text \(742 KB\)\]](#) IEEE JNL

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**10 Multitemporal behavior of L- and C-band SAR observations of boreal forests**

*Pulliainen, J.T.; Kurvonen, L.; Hallikainen, M.T.;*  
Geoscience and Remote Sensing, IEEE Transactions on , Volume: 37 , Issue: 2 , March 1999  
Pages:927 - 937

[\[Abstract\]](#) [\[PDF Full-Text \(220 KB\)\]](#) IEEE JNL

---

**11 Coherent effects in microwave backscattering models for forest canopies**

*Saatchi, S.S.; McDonald, K.C.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 35 , Issue: 4 , July 1997

Pages:1032 - 1044

[\[Abstract\]](#) [\[PDF Full-Text \(384 KB\)\]](#) [IEEE JNL](#)

---

**12 Classification of multifrequency polarimetric SAR imagery using a dynamic learning neural network**

*Chen, K.S.; Huang, W.P.; Tsay, D.H.; Amar, F.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 34 , Issue: 3 , May 1996

Pages:814 - 820

[\[Abstract\]](#) [\[PDF Full-Text \(924 KB\)\]](#) [IEEE JNL](#)

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**13 Radar sensitivity to tree geometry and woody volume: a model analysis**

*Ferrazzoli, P.; Guerriero, L.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 33 , Issue: 2 , March 1995

Pages:360 - 371

[\[Abstract\]](#) [\[PDF Full-Text \(1076 KB\)\]](#) [IEEE JNL](#)

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**14 Correlating radar backscatter with components of biomass in loblolly pine forests**

*Kasischke, E.S.; Christensen, N.L., Jr.; Bourgeau-Chavez, L.L.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 33 , Issue: 3 , May 1995

Pages:643 - 659

[\[Abstract\]](#) [\[PDF Full-Text \(1344 KB\)\]](#) [IEEE JNL](#)

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**15 C-band backscatter signatures of old sea ice in the central Arctic during freeze-up**

*Carlstrom, A.; Ulander, L.M.H.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 31 , Issue: 4 , July 1993

Pages:819 - 829

[\[Abstract\]](#) [\[PDF Full-Text \(1236 KB\)\]](#) [IEEE JNL](#)

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[1](#) [2](#) [3](#) [4](#) [5](#) [Next](#)

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## Refine Search

### Search Results -

Terms	Documents
L12 and (level adj gauge\$1)	0

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L16





### Search History

DATE: Wednesday, August 11, 2004    [Printable Copy](#)    [Create Case](#)

Set Name Query  
side by side

Hit Count Set Name  
result set

*DB=TDBD; PLUR=YES; OP=OR*

<u>L16</u>	112 and (level adj gauge\$1)	0	<u>L16</u>
<u>L15</u>	114 and (polariz\$5 or polaris\$5)	0	<u>L15</u>
<u>L14</u>	112 and 113	29	<u>L14</u>
<u>L13</u>	level\$1 or amount\$1 or volume\$1 or quantit\$3	24837	<u>L13</u>
<u>L12</u>	radar\$1	72	<u>L12</u>

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=OR*

<u>L11</u>	110 and (polariz\$5 or polaris\$5)	5	<u>L11</u>
<u>L10</u>	19 and radar\$1.ti,ab.	52	<u>L10</u>
<u>L9</u>	(level adj gauge\$1).ti,ab.	4429	<u>L9</u>
<u>L8</u>	16 and 17	8	<u>L8</u>
<u>L7</u>	orthogonal\$2 same mode\$1	14678	<u>L7</u>
<u>L6</u>	13 and 15	80	<u>L6</u>
<u>L5</u>	circular\$2 or 14	1729251	<u>L5</u>
<u>L4</u>	(right adj hand\$2) or (left adj hand\$2)	466243	<u>L4</u>
<u>L3</u>	12 and (polariz\$5 or polaris\$5)	213	<u>L3</u>
<u>L2</u>	11 and radar\$1.ti,ab.	5499	<u>L2</u>
<u>L1</u>	(level\$1 or amount\$1 or volume\$1 or quantit\$3).ti,ab.	2842045	<u>L1</u>

END OF SEARCH HISTORY



## Gregory, Bernarr

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**From:** PLUS  
**Sent:** Wednesday, August 11, 2004 12:29 PM  
**To:** Gregory, Bernarr  
**Subject:** PLUS Results for 10687925

Here are the PLUS search results for 10687925.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10687925\_QUAL.txt



10687925\_UST.txt



10687925\_WEST.txt



10687925\_EAST.txt



10687925.east



10687925\_CLS.txt



10687925\_CLSTITLES.1  
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10687925\_WDS.txt

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PLUS Search Results for S/N 10687925, Searched August 11, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search

system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are

most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10687925\_CLS  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10687925 on August 11, 2004

Original Classifications

10	342/124
7	343/700MS
4	333/252
4	343/754
4	343/771
4	343/772
3	73/290R
3	73/290V
3	342/368
3	342/387
3	343/786
3	455/328
2	333/1
2	342/149
2	343/753
2	343/768
2	343/776

Cross-Reference Classifications

6	73/290V
5	343/853
4	324/642
4	333/21A
4	333/254
4	342/124
4	343/772
4	343/777
3	324/644
3	333/248
3	342/22
3	343/754
3	343/770
3	343/771
3	343/778
3	343/785
3	343/786
3	343/909
3	367/908
2	73/290R
2	333/246
2	333/247
2	333/250
2	333/251

10687925\_CLS

2 333/34  
2 342/118  
2 342/126  
2 342/128  
2 342/137  
2 342/153  
2 342/165  
2 342/173  
2 342/174  
2 342/175  
2 342/196  
2 342/26B  
2 342/94  
2 343/700MS  
2 343/776  
2 343/829  
2 367/99  
2 385/14  
2 385/15

Combined Classifications

14 342/124  
9 73/290V  
9 343/700MS  
8 343/772  
7 343/754  
7 343/771  
6 343/786  
6 343/853  
5 73/290R  
5 324/642  
5 333/252  
5 343/777  
4 333/21A  
4 333/254  
4 342/368  
4 343/770  
4 343/776  
3 324/644  
3 333/248  
3 342/174  
3 342/175  
3 342/22  
3 342/387  
3 343/753  
3 343/778  
3 343/785  
3 343/909

10687925\_CLS

3 367/908  
3 385/14  
3 455/328  
2 333/1  
2 333/246  
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2 333/251  
2 333/256  
2 333/34  
2 342/118  
2 342/126  
2 342/128  
2 342/137  
2 342/149  
2 342/153  
2 342/165  
2 342/173  
2 342/196  
2 342/198  
2 342/26B  
2 342/373  
2 342/6  
2 342/81  
2 342/94  
2 343/768  
2 343/781P  
2 343/829  
2 367/99  
2 385/15  
2 385/16  
2 385/3  
2 455/81

10687925\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10687925 on August 11, 2004

14	342/124	(10 OR, 4 XR)
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	Could not find class schedule.	
	Could not find subclass title.	
9	73/290V	(3 OR, 6 XR)
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	Could not find class schedule.	
	Could not find subclass title.	
9	343/700MS	(7 OR, 2 XR)
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	Could not find class schedule.	
	Could not find subclass title.	
8	343/772	(4 OR, 4 XR)
	Could not find class title.	
	Could not find class schedule.	
	Could not find subclass title.	
7	343/754	(4 OR, 3 XR)
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7	343/771	(4 OR, 3 XR)
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	Could not find class schedule.	
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6	343/786	(3 OR, 3 XR)
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	Could not find subclass title.	
6	343/853	(1 OR, 5 XR)
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	Could not find subclass title.	
5	73/290R	(3 OR, 2 XR)
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5 333/252 (4 OR, 1 XR)  
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5 343/777 (1 OR, 4 XR)  
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4 333/21A (0 OR, 4 XR)  
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4 333/254 (0 OR, 4 XR)  
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4 342/368 (3 OR, 1 XR)  
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4 343/770 (1 OR, 3 XR)  
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4 343/776 (2 OR, 2 XR)  
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3 324/644 (0 OR, 3 XR)  
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3 333/248 (0 OR, 3 XR)

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Could not find subclass title.

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3 342/387 (3 OR, 0 XR)  
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3 343/753 (2 OR, 1 XR)  
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3 343/909 (0 OR, 3 XR)  
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3 367/908 (0 OR, 3 XR)  
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Could not find subclass title.



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3 385/14 (1 OR, 2 XR)  
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3 455/328 (3 OR, 0 XR)  
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2 333/1 (2 OR, 0 XR)  
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2 333/34 (0 OR, 2 XR)  
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2 342/118 (0 OR, 2 XR)  
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